

Your Guarantee of Satisfaction

This product is guaranteed to the original purchaser against defects in material and workmanship for one year from the date of initial purchase. Activate this guarantee at the time of purchase by returning the Guarantee Card to the address below. Keep a copy of your sales receipt for proof of guarantee status, should it be necessary.

The crossfader itself is a replaceable part and is only guaranteed against defective workmanship. The slider is selected for the crossfader function has been chosen for its excellent mechanical properties. In a discotheque application the extensive use of this facility means that the number of operations in a twelve month period can exceed the manufactures electrical specification.

If a malfunction occurs, the dealer who supplied the unit will be happy to handle the repair. When returning a unit, use the original factory carton - do not chance inadequate packing materials. Simply tape a note to the unit describing the malfunction.

If your unit is out of guarantee, we recommend that you return it to an authorised Citronic dealer for repair or service. Experienced personnel, supported by specialist testing equipment, will be able to find and correct the fault in the most efficient and cost-effective way.

9: CE Marking***EMC Conformity***

The Pro-8 has been tested to demonstrate compliance with the EMC 89/336/EEC directive, under which the following harmonised standards apply :

- i) **EN55020** Electromagnetic Immunity
- ii) **EN61000-3-2** Mains Harmonic Disturbance Limits
- iii) **EN61000-3-3** Voltage Fluctuation Limits
- iv) **EN55013** Electromagnetic Compatibility

Electrical Equipment Safety Regulations (1994)

The Pro-8 has been designed and tested to demonstrate compliance the the LVD 73/23/EEC directive, using the following standard.

- i) **EN60065** Safety requirements for mains operated electronic equipment for household and similar general use.



Citronic Limited,
Technical Services Department,
Halifax Road,
Bowerhill,
Melksham
Wiltshire
SN12 6UB England.
Tel : 01225 705600 Int: +44 1225 705600
Fax: 01225 709639 Int: +44 1225 709639

CITRONIC

Citronic Limited, innovative leaders in the manufacture of professional audio equipment, are proud to present the Pro-8 Mixer

Established in Melksham Wiltshire, in 1972, the company occupies prestigious purpose built factory headquarters and is one of the leading employers in the area.

The Company's award winning product range covers professional audio Mixers, Amplifiers, Signal Processing and Loudspeakers. Each unit is manufactured to the highest possible standards, and all have an enviable reputation for reliability and value for money - the noted hallmark of Citronic products.

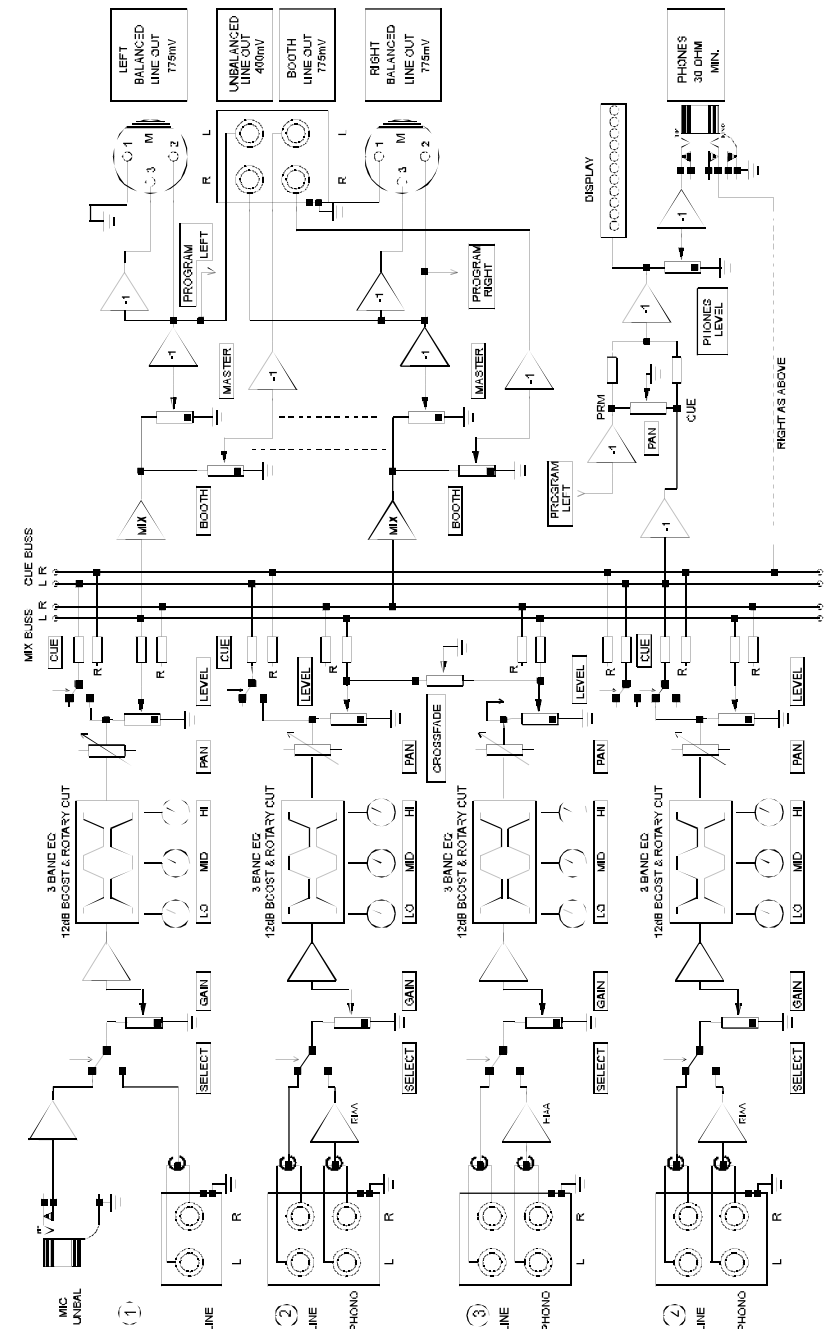
Substantial investment has been made in high technology CAD systems, manufacturing control and testing techniques. This sophisticated computerisation, coupled with an extensive research and development program, enables the company to offer an exceptional degree of manufacturing excellence and quality assurance.

Citronic has always listened carefully to the customer, and places tremendous emphasis on market research. This ensures that the exacting requirements of the installer and operator are complemented, without compromise, throughout the entire product range. This unique approach, coupled with a strong input from a highly qualified engineering team, ensures that Citronic maintains its position as a respected leader, in the industry's development.

Citronic has a distribution network throughout Europe, Asia and the Americas.

WARNING

In order to obtain the best service from the unit we **STRONGLY** recommend that you read this manual before you apply any Pro-8.



Input Sensitivity	Mic	2mV @ 600 Ohms	
	Phono	5mV @ 47K Ohms	
	Line	260mV @ 100K Ohms	
Output Level	Master Balanced	775mV @ 600 Ohms	
	Master Un-Balanced	400mV @ 600 Ohms	
	Booth Output	775mV @ 600 Ohms	
	Headphones	200mV @ 8 Ohms	
Frequency Response	20Hz to 20KHz ±1dB (RIAA±2dB)		
Total Harmonic Distortion	Less Than 0.1%		
Stereo Separation	Better Than 45dB		
Signal To Noise Ratio	Microphone	75dB	
	Phono	70dB	
	Line	75dB	
Equalisation	Hi	Boost	+12dB @ 10KHz
		Cut	-16dB @ 10KHz
	Mid	Boost	+12dB @ 1KHz
		Cut	-30dB @ 1KHz
	Lo	Boost	+12dB @ 100Hz
		Cut	-22dB @ 100Hz

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The Pro-8

The Pro-8 is a professional eight input DJ mixer. These eight inputs are routed to four main input channels. Each of the four input channels offer extensive control over the mix by way of input gain, 3 band Eq with rotary CUT, Balance control and Pre-Fade Listen (pfl).

There is a choice of two inputs on each of the four main input channels. Channel 2 is Mic or Line while 2 & 3 are Phono or CD. The fourth channel is selectable between CD and Line. This input configuration allows you to plug in all eight input devices and select four for use at any time.

The crossfader fades between input channels sending their signals to the output of the mixer. This means you can crossfade between channels 2 (on the left) 3 (on the right).

Citronic's much copied Punch button facility enhances the crossfade facilities still further, by allowing you to Punch in the music channel faded out on the crossfader and mix it on the Live channels. This way you can create exciting mixes by laying one input on top of another for the time you hold down the Punch button. You can use this feature like a transformer switch as well by tapping the Punch button to create stutter effects.

The Pro-8 has a full Cue (pfl) facility that can be independently switched per channel on to the headphones and 10 segment LED bar graph display. This feature allows you to listen to the inputs that are not yet on the output of the mixer so you can set them up for beatmixing or cuing.

Another Citronic development, the Cue Pan, is also fitted which allows you to listen on your headphones or view on the bar graph display, either the cue channel or the output. Any setting in between lets you preview a mix of any input channel with the current mixer output.

The Pro-8 has a DJ booth facility so that a separate audio system can be installed for the DJ as foldback. This allows the DJ to adjust his listening level without affecting the main system on the dance floor.

As this is very much a professional mixer, fully balanced outputs are provided for driving professional power amplifier rigs. An un-Balanced output drive is also provided for driving small systems, recording and practice amps.

12) **Lo Band Equaliser**

This control boosts the volume of the bass frequencies. Take care here, bass frequencies are the most power demanding to reproduce and you need to be sure the boost you give it in the mixer can be handled by your amplifier and loudspeaker system. If distortion occurs while adjusting the EQ lower the input gain to compensate.

13) **Pan & Balance Control**

On the Microphone input this control will shift the position of the microphone to the left or right in the stereo sound field. If you move this control from hard left to hard right while you are talking it will sound as though you are walking from the left to the right hand side of the room.

14) **Cue Selector**

This control selects the input signal on the respective channel and routes it to the cue channel on the headphones and monitor.

15) **Microphone Input**

A ¼" Jack socket mounted on the front face of the mixer for connecting your Microphone.

16) **LED Bargraph Display**

This LED Bargraph Display shows the signal level of either the mixer output or an input you have selected with the Cue buttons.

17) **Input Fader**

A High quality professional 60mm fader for controlling the mix level of the input to the main output.

18) **Crossfader**

A super fast action dipless crossfader between the input channels 2 and 3 enabling you to fade from 2 to 3 in either direction.

19) **Phono Inputs**

Input connectors for turntables with magnetic record player cartridges.

20) **CD Inputs**

Input connector for your CD player specially set up for the high level and dynamic range.

21) **Line Inputs**

Input sockets for line level inputs like professional tape machines or effects unit returns.

22) **Booth Output**

The output to drive the DJ sound system.

23) **Unbalanced Line Out**

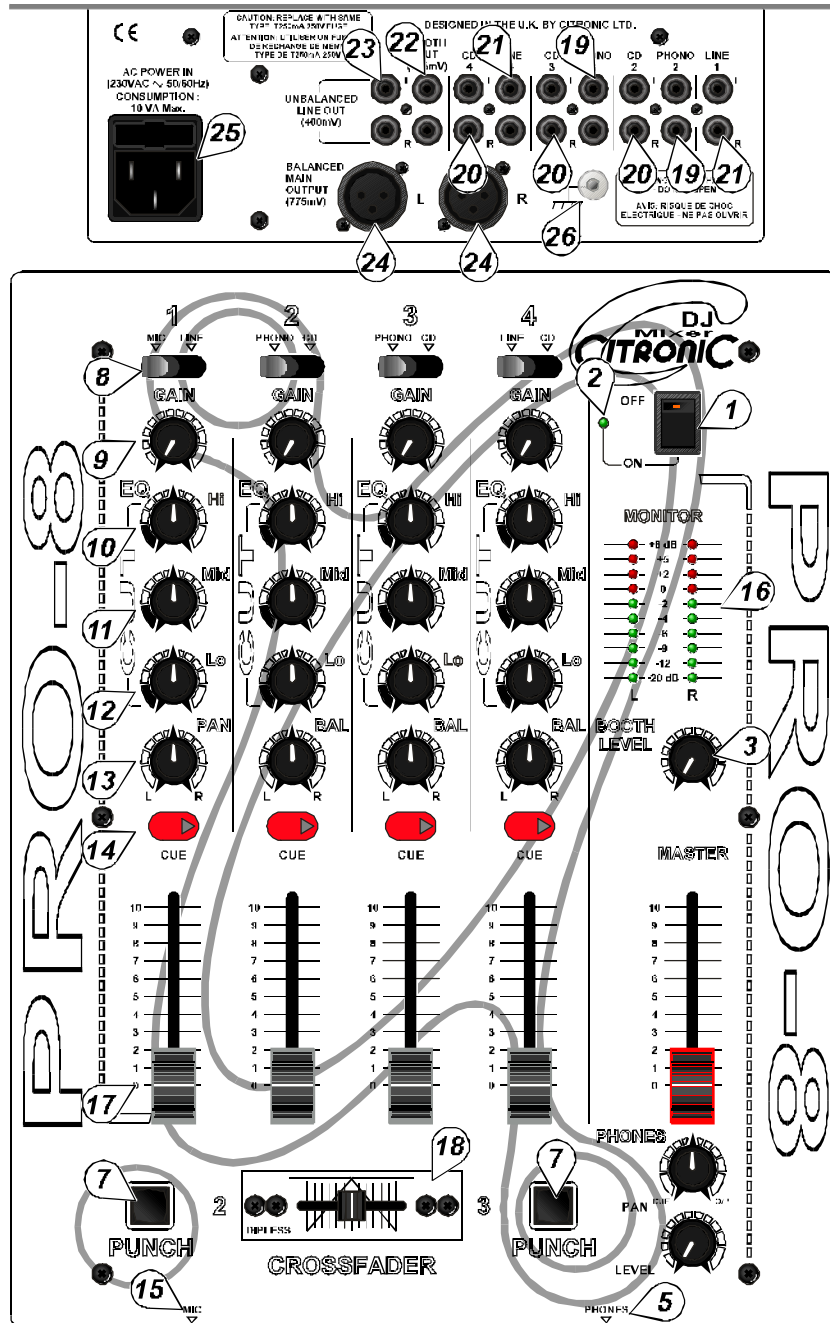
Main output you should use if you do not have amplifiers with balanced inputs.

24) **Balanced Line Out**

The Main output you should use if your amplifiers have balanced inputs.

25) **AC Power Socket**

A standard IEC socket for you to connect the local AC power to the mixer with the AC Power lead supplied.



Connecting Your Mixer

The following pages give a full description of the connectors and their purpose. You should study this carefully before you power up the mixer to ensure you get the very best performance from your Pro-8.

Do's & Don'ts

There are a few general Do's and Don'ts though that you should become familiar with if you have not had a great deal of experience with professional audio systems.

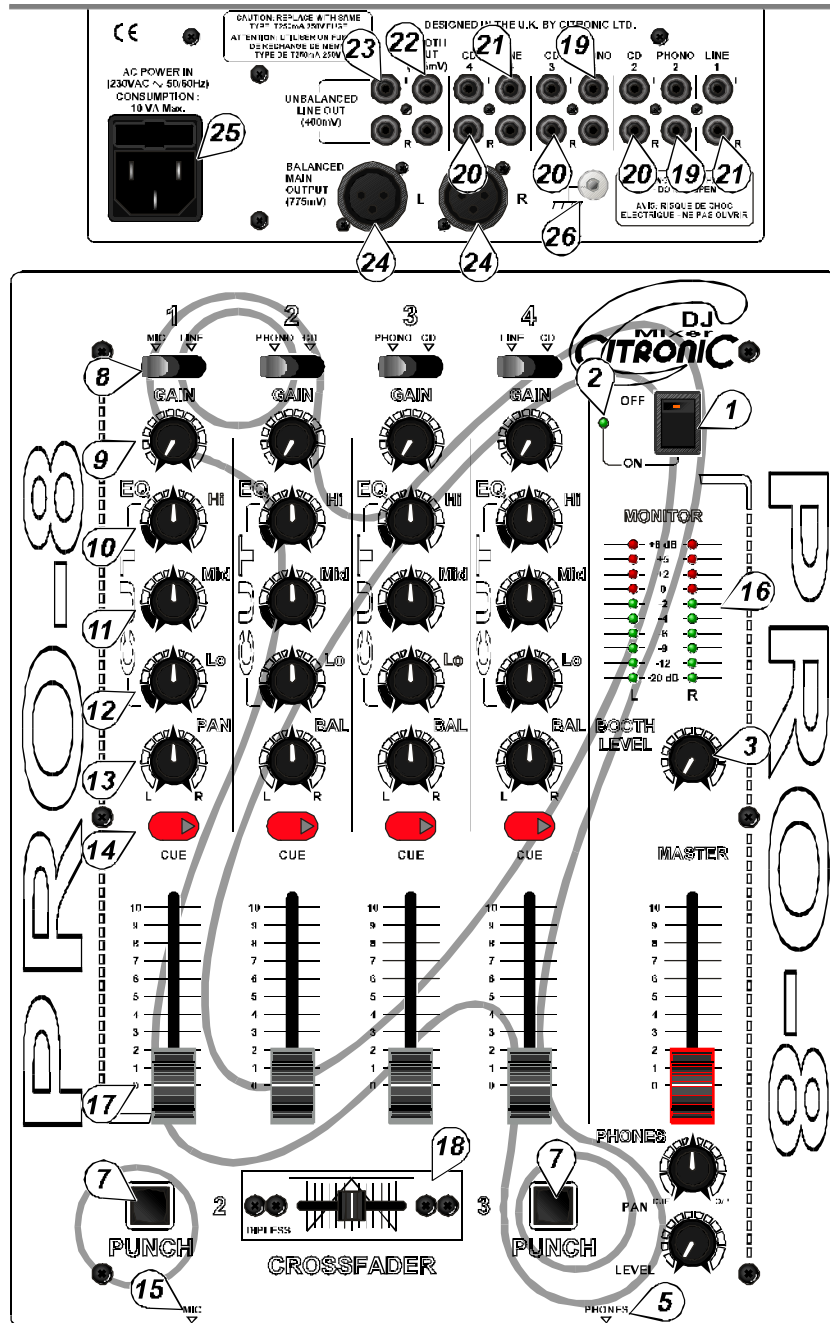
Cables & Connectors - Always use good quality cables and connectors. It might seem expensive when you first look at it, but the first time you have a problem in front of an audience you'll bless the day you made that small investment. 25 years in the business has taught us that over 75% of all problems with DJ systems are simple connector ones. Don't get caught out.

Balanced Outputs - If you want to drive an amplifier with un-balanced inputs do not use the balanced outputs unless you are a qualified electronic technician and you understand exactly what you are doing. Unlike balanced inputs, you should not simply short out the negative output to ground. It's a bit like shorting the output of your amplifier to earth. Even if the circuit is designed to operate this way we recommend you don't take the chance and refer connection to a qualified person. If in doubt, use the un-balanced output.

Switching on your system - Get in the habit of turning on the mixer and all the inputs to it before you turn on the amplifiers. The Pro-8 has been designed not to harm your amplifiers or speakers if you turn on the amplifiers first, but this may not be true of the inputs plugged into the Pro-8 Mixer. Play it safe, always turn on your amplifiers last.

Power supply - The power supply for your Pro-8 is built into the mixer and will be fitted with a mains plug specifically for the mains supply in your country. If it does not match the power socket you wish to use check with your dealer before you plug it in. It is possible you could damage your mixer if it is not the correct version for your mains power supply. Worse still, it could be unsafe. Don't take chances with Mains Power - it can kill.

Crossfader - The crossfader is the most used feature on your mixer and great care has been taken in the choice of components for this function. Even so, it is the most likely thing to wear out first on your mixer, so we've made it quick and easy to replace. Don't get caught out, always carry a spare.



- 1) **Power Switch**
Controls the AC power to the mixer. Always be sure to switch on the power to your mixer before the amplification system.
 - 2) **Power Indicator**
This indicator illuminates green when the AC Power is switched on.
 - 3) **Booth Level**
This is a volume control for the booth output enabling you to have a separate sound system for the DJ.
 - 4) **Headphone Pan**
Turned to the left, it routes the cue signal to the headphones and Monitor display. To the right it sends the output signal to the headphones and monitor. Any position in between these extremes is a variable mixer of the cued input signal and the mixer output.
 - 5) **Headphone Socket**
This is a 1/4" stereo jack socket mounted on the front face of the mixer for you to attach your headphones.
 - 6) **Headphone Level**
This control varies the volume in your headphones.
 - 7) **Punch Button**
This Citronic invention is a really creative mixing tool that allows you to punch off-line inputs straight to the output mix. If you were using inputs 2 & 3 with input 3 faded out on the crossfader, but live on the input fader, you can mix input 3 to input 2 by hitting the punch button. This is a much faster action than waggling the crossfader as fast as you can. If you want transformer or stutter effects, this is the way to do it.
 - 8) **Input Selector**
Each input channel has two input options. This switch lets you select which of the inputs plugged into the channel you wish to use. All input channels are dual with Channel 1 Mic/Line, Channels 2 & 3 Phono/CD and Channel 4 CD/Line.
 - 9) **Gain Control**
This is the input gain trim control that allows you to customise the input gain so that the mixer output, or loudness, is the same for each channel with the input fader in the same position. This allows you to be sure of the output level before you have crossfaded it to the mix. Any distortion may be the result of the gain setting being too high.
- The 3 band Eq not only offers an ample 12dB of boost but each Eq band can be attenuated by at least 20dB. This provides the ability to CUT certain frequencies such as Bass, Mids or Treble.
- 10) **Hi Band Equaliser**
This control changes the volume of the the input signal for the high frequencies only. This means you can enhance hi frequency sounds in the music input.
 - 11) **Mid Band Equaliser**
This control alters the volume of frequencies in the middle band where the human voice is heard. Altering this control can improve speech intelligibility and will be particularly useful on the Microphone input.